

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 7/15/2019

Time: 7:00:00 AM

| Santa Ana River | | Flow Rate (cfs) |
|-----------------|-----------------------------|-----------------|
| A5 | Total SAR Inflows | 49.6 |
| N2 | Total SAR Deliveries | 49.6 |
| A1 | SAR PH#3 Penstock (calc) | 0.0 |
| B1 | BVMWC Highline | 0.0 |
| C1 | Greenspot Pipeline | 0.0 |
| L2 | SBVWCD Parshall Flume | 18.0 |
| G2 | North Fork Canal Weir | 0.0 |
| H2 | Edwards Canal | 0.0 |
| W1 | Redlands Aqueduct (calc) | 31.6 |
| | Other | 0.0 |

| Mill Creek | | Flow Rate (cfs) |
|------------|----------------------------|-----------------|
| D3 | Total MC Inflows | 29.6 |
| U3 | Total MC Deliveries | 29.6 |
| K3 | Yucaipa Pipeline | 0.0 |
| O3 | SBVWCD Spreading | 0.1 |
| T3 | MC #1 Flow (Cooley Hat) | 29.6 |

| State Water Project | | Flow Rate (cfs) |
|---------------------|-----------------------------|-----------------|
| G | Total SWP Inflows | 72.1 |
| V | Total SWP Deliveries | 72.1 |
| J | Northfork Canal | 0.0 |
| L | Redlands Aqueduct | 0.0 |
| M | Crafton Unger Lane | 0.0 |
| T | Newport to BVMWC | 0.0 |

| Reservoir Levels | Feet |
|--------------------------------|--------|
| Observation at SOD | 2160.7 |
| Crafton Reservoir Level (21.3) | 17.6 |
| Mentone Reservoir Level | 19.9 |

| River Recharge | AF |
|-------------------------------------|----|
| Estimate SAR Recharge (AF) | 0 |
| Estimate Mill Creek Recharge (AF) | 0 |
| Estimated Total River Recharge (AF) | 0 |

| Location | Type | WY to Date (AF) | Target |
|-------------------------------|--------|-----------------|---------|
| Santa Ana River | SAR | 32,962 | 176,000 |
| Santa Ana River to Mill Creek | SAR-MC | 267 | 0 |
| Santa Ana River | SWP | 9,193 | 0 |
| Mill Creek | MC | 9,312 | 106,000 |
| Mill Creek | SWP | 8,284 | 0 |
| Redlands | SWP | 0 | 0 |
| Loma Linda | SWP | 0 | 0 |
| East Valley | SWP | 134 | 0 |

Notes: Numbers on the Daily Flow Report are a snapshot of water at a given location at the time of the read, normally very early in the morning, and not necessarily what is at that location throughout the day.

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Daily Flow Report

Date: 7/15/2019
Time: 7:00:00 AM

State Water Project

| Inflows | | Deliveries | | | | | | | | | |
|---------|--------------------------------|-------------|---|-----------------------|------|---|----------------------|-----|---|-----------------------------|-------------|
| A | BBMWD In-lieu | 2.0 | H | EVWDC City Creek | 8.0 | M | Crafton Unger Lane | 0.0 | S | SBCFCD Grove | 0.0 |
| B | Muni test at Greenspot Station | 0.0 | I | Santa Ana Low Turnout | 40.0 | N | BVMWC Boullioun Box | 2.0 | T | Newport for BVMWC | 0.0 |
| C | Exchange Water | 0.0 | J | Northfork Canal | 0.0 | P | SARC West | 0.0 | U | M/C spreading at Zanja Tate | 22.1 |
| D | Purchased Water | 70.1 | K | Edwards Canal | 0.0 | Q | Zanja | 0.0 | W | Tres Lagos | 0.0 |
| E | Redlands Aqueduct Leakage | 0.0 | L | Redlands Aqueduct | 0.0 | R | Tate Treatment Plant | 0.0 | V | Total SWP Deliveries | 72.1 |
| F | Recharge Project | 0.0 | | | | | | | | | |
| G | Total SWP Inflows | 72.1 | | | | | | | | | |

Santa Ana River Inflows

| SAR PH #3 Penstock (calc) | | BVMWC Highline | | SOD Release Subtotal | | Total SAR Inflows | | | | | |
|---------------------------|----------------------------------|----------------|----|-------------------------------|------------|-------------------|---------------------------------|-------------|-----|---------------------------|--------------------------|
| G2 | Northfork Canal Weir | 0.0 | A2 | Newport | 0.0 | D1 | BVMWC River PU (USGS) | 35.6 | A1 | SAR PH #3 Penstock (calc) | 0.0 |
| H2 | Edwards Canal | 0.0 | D2 | Boullioun Box Weir | 0.0 | E1 | Main River Gage (USGS) | 14.0 | B1 | BVMWC Highline | 0.0 |
| J2 | Tailrace Valve to Parshall Flume | 0.0 | E2 | Boullioun Box to Zanja | 0.0 | | minus | | C1 | Greenspot Pipeline | 0.0 |
| K2 | Northfork Parshall Flume | 4.0 | F2 | SBVWCD Mill Creek Spreading | 0.0 | F1 | Greenspot Spill | 0.0 | D1 | BVMWC River PU (USGS) | 35.6 |
| V1 | PH#3 Afterbay SpillLoss to SAR | 0.0 | B1 | BVMWC Highline | 0.0 | Z1 | SOD Release Subtotal | 49.6 | E1 | Main River Gage (USGS) | 14.0 |
| W1 | Redlands Aqueduct / Sandbox | 32.1 | | | | | | | D1a | BV Pick-Up gated | <input type="checkbox"/> |
| Y1 | Redlands Sandbox Spill | 0.0 | | | | | | | A5 | Total SAR Inflows | 49.6 |
| | minus | | | | | | | | | | |
| D1 | BVMWC River PU (USGS) | 35.6 | | | | w | Observation at SOD | 2160.7 | | | |
| I1 | Redlands Tunnel | 0.5 | J1 | Big Bear Lake Release | 0.6 | x | SOD Reservoir Elevation (scada) | 2161.5 | | | |
| A1 | SAR PH #3 Penstock (calc) | 0.0 | L1 | SCE SAR AVM (SCADA) | 0.0 | y | Debris Pool Elevation | N/A | | | |
| K1 | PH#3 Penstock (SCADA) | N/A | X1 | SAR-MC Spread (Red. Aqueduct) | 0.0 | | | | | | |
| | | | | | | | | | | | |

| Edison Generation | |
|---------------------|--------------------------|
| SAR PH#1 Generating | <input type="checkbox"/> |
| SAR PH#3 Generating | <input type="checkbox"/> |

Santa Ana River Deliveries

| Greenspot Pipeline | | Tailrace Pipeline | | SBVWCD Parshall Flume To Basins | | Deliveries | | | | | |
|--------------------|-----------------------------|-------------------|----|----------------------------------|------------|------------|----------------------------------|-------------|----|----------------------------------|-------------|
| M1 | SBCFCD Grove | 0.0 | G2 | Northfork Canal Weir | 0.0 | J2 | Tailrace Valve to Parshall Flume | 0.0 | V1 | SAR PH #3 Afterbay Spill | 0.0 |
| N1 | BVMWC Highline | 0.0 | H2 | Edwards Canal | 0.0 | K2 | Northfork Parshall Flume | 4.0 | W1 | Redlands Aqueduct / Sandbox | 32.1 |
| O1 | Newport for BVMWC | 0.0 | J2 | Tailrace Valve to Parshall Flume | 0.0 | H1 | SBVWCD Diversion | 14.0 | Y1 | Redlands Sandbox Spill | 0.0 |
| P1 | SBVWCD Mill Creek Spreading | 0.0 | K2 | Northfork Parshall Flume | 4.0 | | minus | | Z2 | Cuttle Weir To River | 0.0 |
| Q1 | Crafton WC Unger Lane | 0.0 | I2 | Tailrace Pipeline | 4.0 | | Sedimentation Basin Recharge | 0.0 | B1 | BVMWC Highline | 0.0 |
| R1 | BVMWC Highline to Boullioun | 0.0 | | | | L2 | SBVWCD Parshall Flume | 18.0 | C1 | Greenspot Pipeline | 0.0 |
| S1 | Crafton WC Boullioun | 0.0 | | | | | Parshall Flume (SCADA) | 18.2 | I2 | Tailrace Pipeline | 4.0 |
| T1 | Tate Pump Station to Zanja | 0.0 | | | | | | | L2 | SBVWCD Parshall Flume | 18.0 |
| C1 | Greenspot Pipeline | 0.0 | | | | | | | | minus | |
| | | | | | | | | | J2 | Tailrace Valve to Parshall Flume | 0.0 |
| | | | | | | | | | K2 | Northfork Parshall Flume | 4.0 |
| | | | | | | | | | I1 | Redlands Tunnel | 0.5 |
| | | | | | | | | | N2 | Total SAR Deliveries | 49.6 |

Mill Creek Inflows

| Total MC Inflows | | Other | | | |
|------------------|-----------------------------|-------------|----|----------------------------------|------|
| A3 | RPU Flow | 12.9 | E3 | M/C #1 Penstock Flow | 29.6 |
| B3 | M/C #3 Penstock | 16.7 | F3 | Stream Parshall Flume to Yucaipa | 0.0 |
| C3 | SBVWCD Mill Creek Diversion | 0.0 | G3 | Observation at Garnet | 0.0 |
| D3 | Total MC Inflows | 29.6 | | | |

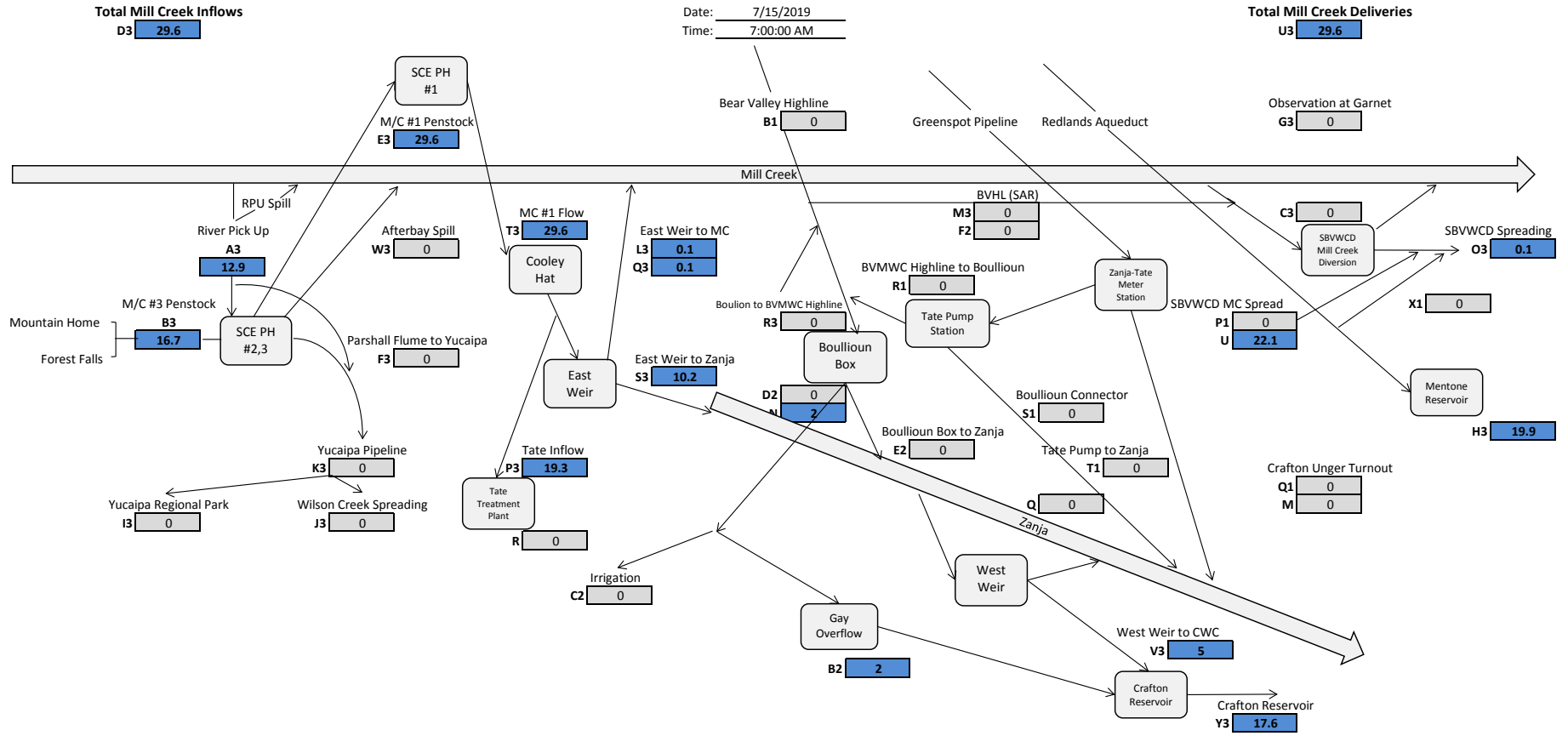
Mill Creek Deliveries

| Yucaipa Pipeline | | MC #1 Flow (Cooley Hat) | | Total MC Deliveries | | Other | | | | | |
|------------------|-------------------------|-------------------------|----|--------------------------------|-------------|-------|---------------------------------|-------------|----|-----------------------------------|------|
| J3 | Wilson Creek Spreading | 0.0 | P3 | Tate Inflow | 19.3 | C3 | SBVWCD Mill Creek Diversion | 0.0 | H3 | Mentone Reservoir Level | 19.9 |
| K3 | Yucaipa Pipeline | 0.0 | Q3 | East Weir to Mill Creek | 0.1 | T3 | Mill Creek #1 Flow (Cooley Hat) | 29.6 | R3 | Boullioun to BVMWC Highline | 0.0 |
| | | | S3 | East Weir to Zanja | 10.2 | U3 | Total MC Deliveries | 29.6 | V3 | Zanja West Weir to CWC Canal | 5.0 |
| | | | T3 | MC #1 Flow (Cooley Hat) | 29.6 | | | | W3 | Mill Creek PH #2,3 Afterbay Spill | 0.0 |
| | | | N3 | Cooley Hat (SCADA) | 33.2 | | | | Y3 | Crafton Reservoir Level (21.3) | 17.6 |

SBVWCD Recharge

| Location | Type | Previous Day (AF) | | WY To Date (AF) | | Target | Calendar Year To Date (AF) | | Target |
|---------------------------------|-----------------------------|-------------------------------|-------|--------------------------------|----------|-----------------------------------|----------------------------|-----------------------------------|---------|
| A4 | Santa Ana River | E4 | 147.3 | I4 | 32,962.3 | 176,000 | I4 | 32,891.5 | 176,000 |
| M4 | Santa Ana Rvr to Mill Creek | N4 | 0.0 | O4 | 267.0 | | O4 | 175.5 | |
| B4 | Santa Ana River | F4 | 232.8 | J4 | 9,193.1 | | J4 | 8,177.8 | |
| C4 | Mill Creek | G4 | 1.8 | K4 | 9,311.5 | 106,000 | K4 | 8,699.0 | 106,000 |
| D4 | Mill Creek | H4 | 120.3 | L4 | 8,284.1 | | L4 | 8,284.1 | |
| | Redlands | | 0.0 | | 0.0 | | | 0.0 | |
| | Loma Linda | | 0.0 | | 0.0 | | | 0.0 | |
| | East Valley | | 0.0 | | 134.4 | | | 0.0 | |
| SAR Passing Cuttle Weir (cfs) | 0 | Share of Lost SAR Flow | 0 | Estimate SAR flow (cfs) | 0 | Estimate SAR Recharge (AF) | 0 | Estimate SAR Recharge (AF) | 0 |
| Mill Creek Passing Garnet (cfs) | 0 | Share of Lost Mill Creek Flow | 0 | Estimate Mill Creek flow (cfs) | 0 | Estimate Mill Creek Recharge (AF) | 0 | Estimate Mill Creek Recharge (AF) | 0 |
| Flow in the River Above Alabama | 0 | Flowing Beyond Alabama | 0 | Total River Flow (cfs) | 0 | Total River Recharge (AF) | 0 | Total River Recharge (AF) | 0 |

Santa Ana River - Mill Creek Cooperative Water Project Mill Creek Stations



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